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		В	SUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:								
				P-40						Februa	ry 2004						
APPROPRIATION/BU	DGET ACTIV	/ITY					P-1 ITEM NOM	IENCLATURE			•						
OTHER PROCUR	EMENT, N	AVY/BA-1					SU	B. PERISCO	PES & IMAG	ING EQUIP./	083100/05/H1	PL					
Program Element for (Code B Items	:					Other Related Program Elements N/A										
		ID Code	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total					
QUANTITY																	
COST (In Millions)				\$32.2	\$29.9	\$62.1	\$72.1	\$71.8	\$70.1	\$66.1	\$0.0	\$404.2					
SPARES COST (In Millions)												\$0.0					

The Submarine Periscope Program procures the Type 18 andType 8 periscopes and new, improved imaging capabilities incorporated in the Integrated Submarine Imaging System (ISIS). Commander Naval Submarine Force (CNSF). Operations Review Group (ORG) selected the Patriot Type 18 Periscope Rangefinder and the Type 8 Infra-Red (IR) Periscope as high priority tactical control technologies to field. By OPNAV Ltr Ser. N77/3U629209, 12 June 2003, OPNAV N77 established the ISIS to rapidly field these systems and integrate existing periscope imagery systems into a single system for installation on board submarines. The ISIS baseline includes the Type 18 Periscope Patriot Rangefinder, the Type 8IR Periscope, the Submarine Common Imaging System (SCIS), and the Silent Watch ESM Upgrade. ISIS supports high intensity operations in the littoral, providing the submarine force with the tactical imaging systems necessary to safely and effectively employ its surveillance and weapons capabilities. The Infra-Red (IR) imaging capability improves imaging in low visibility conditions. The Electronic Warfare Support (ES) upgrade provides the LOS ANGELES Class submarine the ability to intercept, classify, and identify potential threat emitters using onboard ESM equipment when the Type 8 is the only mast raised. This capability allows for greater submarine stealth in the littoral. The Automated Range Finder provides a 360 degree search independent of the visual search, enhanced situational awareness and provides a collision avoidance capability. Tactical imagery technology insertion includes the Submarine Common Imagery System, an integrated imaging system that provides for remote periscope operation, operator alerts, imaging enhancement tools and contact analysis tools, interfaced with other Combat Systems. FY 2005, funding will improve submarine imaging capability in the areas of: ship safety, Intelligence, Surveilance and Reconnaissance (ISR), tactical control (contact management in the littorals) to provide high quality imaging 24 hours

ISIS provides for the modernization of imaging systems to improve imaging capabilities for the submarine force in support of ISR requirements. This includes the integration of new capabilities into the Type 18 and Type 8 Periscopes. The inventory objective is 62 units: This is the quantity required for ship installation (59), spares (2), and (1) configuration model.

The Type 18 Periscope was approved for service use in 1972. The inventory objective is 72 units: This is the quantity required for ship installation (54), spares (14), trainers (3), and (1) configuration model.

The Type 8 Mod 3 Periscope provides enhanced imaging and communications capabilities. The Type 8B Mod 3 Periscope replaces the Type 2 Periscope on LOS ANGELES Class Submarines. The Type 8B Mod 3 Periscope inventory objective is 63 units. This is the quantity required for ship installation (53), spares (7), trainers (1), Type 8 Mod 3 Infrared (IR) Pre-Production Model (1) and configuration control model (1).

PL001 - Procurement of Type 8B Mod 3 Periscopes began in FY 1991. The Type 8B Mod 3 replaces the Type 2 Periscope on SSN-688 Class Submarines and provides them with enhanced imaging and communications capabilities. Installations will be accomplished during routine upkeep periods and shipyard availabilities.

PL006 - Imaging components are required to fully support Type 18 digital imaging, photographic, television, ancillary equipments and upgrades, and the Type 8 Infra-red (IR) upgrade. Equipment includes IR, High Resolution Digital Cameras, imaging recording devices, Reliability & Maintainability and obsolescence components and imaging equipment that must be replaced. These maintenance items support fleet requirements based on demand history, repair turn-around time, and casualties resulting from non-repairable equipment and ancillary components. This line is consolidated in PL011 in FY05.

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BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-1	SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL

- PL011 Imaging Block Upgrade Funding continues procurement of Periscopes and Imaging Equipment reliability & maintainability, obsolescence, and operational capability enhancement block upgades (i.e.): Type 18 Radar Absorption System (RAS), Type 18 Improved antenna, Type 18 mast downrun upgrade, Type 18 low band signal distribution upgrade, Type 18 Submarine Imaging System (SUBIS), Type 18 heated head window replacement, periscope bearing upgrade, hoisting cylinder sleeve bearing upgrade, periscope fairing steady bearing, periscope fairing lower dashpot improvement, periscope fairing hoisting cylinder backup rings, periscope fairing upper Karon bearing, periscope fairing cylinder rod ceramic coating, periscope fairing cylinder backup rings, periscope fairing upper Karon bearing, periscope fairing cylinder rod ceramic coating, periscope fairing cylinder backup rings, periscope fairing upper Karon bearing, periscope fairing cylinder rod ceramic coating, periscope fairing cylinder backup rings, periscope fairing upper Karon bearing, periscope fairing cylinder rod ceramic coating, periscope fairing upper Karon bearing, periscope fairing cylinder rod ceramic coating, periscope fairing upper Karon bearing, periscope fairing upper Karon bearing, periscope fairing cylinder rod ceramic coating, periscope fairing upper Karon bearing, periscope fairing upper Karon bearing upper Kar universal hull packing improvement, periscope alternate cathodic protection, and periscope fairing hoisting cylinder installation fixture. Variable quantities and types are bought in each fiscal year.
- PL012 Funds procure replacement Special Support Equipment (SSE) for each maintenance level to ensure systems are maintained in a state of operational readiness. Equipment includes Q-Band Test Equipment, Mast Dynamic Collimator, Evebox/Mast Test Set, and Antenna/Outer Head Simulator required due to obsolescence and age of existing imaging systems SSE.
- PL015 Funding is for Interim Contract Support provided by the periscope manufacturer including Depot and Intermediate level repair of all types of tactical submarine imaging systems.
- PL016 Funding is for imaging systems training requirements to include curriculum development, training materials, initial factory training pilot course conduct, Navy Training Plans, and instructor advisory services.
- PL017 Funding is for the procurement of Type 8 Mod 3 Infra-Red (IR) Periscope Upgrades beginning in FY-03. Funding provides for enhanced submarine safety through the ability to navigate and visually detect contacts at night and in light rain or fog. Tactically, the submarine will be able to perform continuous IR searches for targets, plumes and wakes, perform reconnaissance of coastlines, track and recover special forces, perform mine laying at night and provide correlation of IR images with EW emitters. This line is consolidated in PL022 in FY05.
- PL018 Funding is for the procurement of an Automated Range Finder beginning in FY-03. Funding provides for an increased capability for the periscope to perform rapid determination of contact range without a prior knowledge of contact dimensions and without application of rules of thumb. The automated range finder will increase efficiency for contact management, reduce workload and eliminate operator fatigue during prolonged operations in dense contact environments.
- PL019 Funding for the SIGINT Type 8B/J ESM Upgrade was realigned in FY-03 based on CNO Sponsor N77 direction. Funds were redistributed to Cost Codes PL011, PL012 and PL015.
- PL020 Funding is for tactical imagery technology insertion. Funding provides for a Submarine Common Imagery System. The imaging system will provide for remote periscope operation, operator alerts, imaging enhancement tools and contact analysis tools. This line is consolidated in PL022 in FY05
- PL021 Funding is for the procurement of a SSGN ISIS Imaging System including NRE in FY-04. This line is consolidated in PL022 in FY05

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PL022- Funding is for the procurement of SSN ISIS Imaging Systems including NRE beginning in FY-05.

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40		February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	1 00. 44.7 2001
OTHER PROCUREMENT, NAVY/BA-1	SUB. PERISCO	PES & IMAGING EQUIP./083100/05/H1PL
PL830 - Production Engineering funds provide the following functions: value engineering; review and emaintenance engineering efforts designed and incorporated into the production manufacturing process, a ancillary components.		
PL900 - Imaging Systems engineering, technical and maintenance services funds provide the following full Equipment, imaging system installation and integration planning, SHIPALT and TEMPALT technical data protraining materials development, field engineering and technical problem resolution, block upgrade install management, repair, and restoration scheduling.	reparation, production hardware	design review, engineering/technical support for installations,
PL5IN - Funding is for the installation of Fleet Modernization Program Equipment Only.		
PL6IN - Funding is for the installation of Non-Fleet Modernization Program Equipment only.		
Estimates include competitive sourcing savings associated with consolidation of production support contractions	ng efforts.	
D 4 0 HODDING HOT	OL ADDIFICATI	ION.
P-1 SHOPPING LIST	CLASSIFICATI	IUN:

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	WEAPONS SYSTEM CO P-5	OST AN	ALYSIS			Weapon S	ystem							DATE: Februar	ry 2004
	RIATION/BUDGET ACTIVITY cocurement, Navy					ID Code		OMENCLATU RISCOPE:			IP./083100	/05/H1PL			
			TOTAL COS	T IN THOUS	ANDS OF DO	DLLARS									
COST CODE	ELEMENT OF COST	ID Code			FY 2002			FY 2003			FY 2004			FY 2005	
		Codo		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
PL001	Type 8B Mod 3 Periscope (SSN)	А							0			0			
PL006	Type 18 and Type 8 Imaging Components	А							492			0			(
PL011	Imaging Block Upgrade	А							12,804			5,269			1,768
PL012	Periscope Special Support Equipment	А							505			332			440
PL015	Periscope Interim Contractor Support	А							1,117			895			1,115
PL016	Periscope Training	А							142			144			14
PL017	Type 8 Mod 3 IR Periscope Upgrade	А					3	1,615	4,846			0			
PL018	Automated Range Finder	А					4	1,426	5,705	4	1,186	4,745	12	900	10,80
PL019	SIGINT - Type 8B/J ESM Upgrade	А							0			0			
PL020	Submarine Common Imagery System	Α							0			0			
PL021	SSGN Imaging System	Α							0	1	11,851	11,851			
PL022	Integrated Submarine Imaging System (ISIS)	А							0			0	9	4,433	39,90
	SUB-TOTAL - PROCUREMENT 2446, JUN 86		0 OPPING LIST			()		25,611			23,236 CLASSIFICA			54,17

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	WEAPONS SYSTEM C P-5	OST AN	IALYSIS			Weapon Sy	/stem							DATE:	ry 2004
Other Pr	RIATION/BUDGET ACTIVITY OCUREMENT, NAVY SHIP SUPPORT EQUIPMENT					ID Code			RE/SUBHEAD S & IMAGI		IP./083100	/05/H1PL		Februa	ry 2004
			TOTAL COS	T IN THOUS	SANDS OF DO	DLLARS	-1								
COST	ELEMENT OF COST	ID Code			FY 2002			FY 2003			FY 2004			FY 2005	
		Joan	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
PL830	Periscope Production Engineering	А							2,357			1,658			2,87
PL900	Periscope Consulting Services - CSS	А							513			506			53
	TOTAL PROCUREMENT								28,481			25,400			57,58
PL5IN	Periscope FMP Installation	А							3,114			2,938			2,77
	Periscope FMP Installation - DSA	А							386			734			69
PL6IN	Periscope Non FMP Installation (ORDALT)	А							172			795			99
	TOTAL INSTALLATION					o			3,672			4,467			4,46
	GRAND TOTAL		0			0			32,153			29,867			62,0

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BUDGET PROCUREM	ENT HISTO	ORY AND	PLANNING EXHIBIT	Γ (P-5A)		Weapon System		A. DATE	February 20	04
B. APPROPRIATION/BUDGET. Other Procurement, N. BA-1 SHIP SUPPORT	avy	NT			C. P-1 ITEM NOM SUB. PERISO	I IENCLATURE COPES & IMAGING EQ	UIP./0831		SUBHEAD	PL
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2003 PL017 Type 8 IR Periscope Upgrade PL018	3	\$1,615	NUWC, Newport	9/02	O/FP	Kollmorgen Northampton, MA.	7/03	1/05	YES	N/A
Automated Range Finder	4	\$1,426	NAWC, China Lake	9/02	C/FP	Various	4/03	10/04	YES	N/A
FY 2004 PL018 Automated Range Finder PL021	4	\$1,186	NAWC, China Lake	9/03	C/FP	Various	4/04	10/05	YES	N/A
SSGN Imaging System Mast	1	\$11,851	NAVSEA, Wash, DC	9/03	O/FP	Kollmorgen Northampton, MA.	4/04	4/06	YES	N/A
FY 2005 PL018 Automated Range Finder	12	\$900	NAWC, China Lake	9/04	C/FP	Various	4/05	10/06	YES	N/A
PL022 Integrated Submarine Imaging System (ISIS)	9	\$4,433	NAVSEA, Wash, DC	9/04	C/FP	TBD	5/05	11/06	YES	N/A
D. REMARKS										

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CLASSIFICATION: UNCLASSIFIED Feb 2004

РЗА		INDIVIDUA	AL MO	DIFICA	TION																
MODELS OF SYSTEM AFFECTED:	Туре	8 Periscope		_	TYP	E MODI	FICAT	ION:	Shipa	lt		-		MOE	IFICATI	ON TI	TLE:	Туре	e 8B Mod 3/	/PL001	
DESCRIPTION/JUSTIFICATION:																					
Provides EHF Satellite Communications (S	ATCO	M)																			
DEVELOPMENT STATUS/MAJOR DEVELO	OPMEN	IT MILESTO	NES:									_									
	FY 2 QTY	2002 & Prior ′ \$		<u>FY</u> \$	<u>F`</u> QTY	<u>/ 2003</u> \$	<u>F\</u> QTY	<u>/ 2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$	<u>FY</u> QTY	<u>/ 2006</u> \$	<u>/ 2007</u> \$	FY 2 QTY	008 \$		FY 2009		<u>TC</u> \$	<u>TO</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																				0	0.0
<u>PROCUREMENT</u>																					
INSTALLATION KITS																				0	0.0
INSTALLATION KITS - UNIT COST																					
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT	48	74.3																		48	74.3
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT*	1	2.7																		1	2.7
SUPPORT EQUIPMENT (CCM)	1	1.1																		1	1.1
OTHER: TRIDENT PAYBACKS	5	5.3																		5	5.3
OTHER: SPARES	7	8.1																		7	8.1
OTHER: T8 MOD 3 IR PREPROD MODEL	. 1	5.5																		1	5.5

1.2

1.2

1.2

1.2

1.6

1.6

INTERIM CONTRACTOR SUPPORT

16.4

113.4

63

INSTALL COST

TOTAL PROCUREMENT

63 117.4 CLASSIFICATION: UNCLASSIFIED ITEM 6 PAGE 9

0.0

20.4

CLASSIFICATION: UNCLASSIFIED Feb 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: MODIFICATION TITLE: Type 8B Mod 3/PL001 Type 8 Periscope INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 14 Months FY 2002: CONTRACT DATES: Mar-02 FY 2004: FY 2003: N/A N/A FY 2005: N/A DELIVERY DATE: FY 2002: May-03 FY 2003: N/A FY 2004: N/A FY 2005: N/A (\$ in Millions) FY2002 & Prior FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total Cost: Qty \$ Qty \$ \$ \$ Qty \$ Qty Qty \$ \$ Qty \$ Qty \$ Qty Qty Qty Qty **FY 2002 & PRIOR** 40 48 20.4 16.4 1.6 FY 0.0 FY 2003 EQUIPMENT 0.0 **FY 2004 EQUIPMENT** 0.0 **FY 2005 EQUIPMENT** 0.0 FY 2006 EQUIPMENT 0.0 **FY 2007 EQUIPMENT** 0.0 **FY 2008 EQUIPMENT** 0.0 FY 2009 EQUIPMENT 0.0 TO COMPLETE INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 <u>TC</u> & Prior TOTAL 3 3 4 4 3 3 3 0 0 0 0 0 In 40 0 1 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 48 Out 40 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 48 P-3A ITEM 6 PAGE 10 CLASSIFICATION: UNCLASSIFIED

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P3A INDIVIDUAL MODIFICATION

Feb 2004

P3A		INDIVIDUA	AL MO	DIFICA	HON															
MODELS OF SYSTEM AFFECTED:	Туре	18B Perisco	ре	=	TYP	E MODIF	FICAT	ION:	Shipa	lt	_		MOD	IFICATI	ON TI	TLE:			stem (SUBI	S)
DESCRIPTION/JUSTIFICATION:																	PL01	1		
Provides replacement of obsolete Type 18	Periso	cope video c	ompor	nents wi	th a dio	gital ima	ging u	pgrade.												
DEVELOPMENT STATUS/MAJOR DEVELO	OPMEI	NT MILESTO	ONES:								-									
	FY 2 QTY	2002 & Prior ′ \$		<u>FY</u> \$	<u>F\</u> QTY	<u>′ 2003</u> \$	<u>F\</u> QTY	<u>/ 2004</u> \$	<u>FY</u> QTY	200 <u>5</u> \$	<u>Y 2006</u> \$	Y 2007 * \$		<u>′ 2008</u> \$		<u>/ 2009</u> \$	QTY	<u>TC</u> \$	TO QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			0	0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																			0	0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT	39	10.6			12	3.6	3	0.9											54	15.1
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT	2	0.4																	2	0.4
SUPPORT EQUIPMENT (CCM &SS)																			0	0.0
OTHER SPARES					4	1.2	2	0.6											6	1.8
OTHER TEMPALT																				0.0

OTHER: CATASTROPHIC LOSS

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

0.2

2.1

13.3

42

1.9

6.7

16

2.6

4.1

1.5

1.5

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0.2

0.0

8.1

25.6

CLASSIFICATION: UNCLASSIFIED Feb 2004 INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: Type 18B Periscope MODIFICATION TITLE: Sub Imaging System (SUBIS)/PL011 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: Months CONTRACT DATES: FY 2002: Jun-02 FY 2003: Apr-03 FY 2004: Apr-04 FY 2005: N/A DELIVERY DATE: FY 2002: Dec-02 FY 2003: Oct-03 FY 2004: Oct-04 FY 2005: N/A (\$ in Millions) FY FY 2005 FY 2006 Cost: FY2002 & Prior FY 2003 FY 2004 FY 2007 FY 2008 FY 2009 To Complete Total \$ Qty Qty \$ Qty Qty \$ \$ Qty \$ **FY 2002 & PRIOR** 20 2.1 12 39 1.9 7 1.3 5.2 FΥ 0.0 7 12 **FY 2003 EQUIPMENT** 1.3 5 0.9 2.2 **FY 2004 EQUIPMENT** 0.6 0.6 **FY 2005 EQUIPMENT** 0.0 **FY 2006 EQUIPMENT** 0.0 **FY 2007 EQUIPMENT** 0.0 **FY 2008 EQUIPMENT** 0.0 FY 2009 EQUIPMENT 0.0 TO COMPLETE INSTALLATION SCHEDULE: TC FY 2002 FY 2004 FY 2006 FY 2007 FY 2003 FY 2005 FY 2008 FY 2009 & Prior 2 3 3 3 3 TOTAL 4 20 0 4 4 2 4 4 4 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 54 In 4 2 2 2 0 Out 20 0 4 4 4 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 54 P-3A ITEM CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION:	UNCLASSIFIED	Feb 2004
P3A	INDIVIDUAL MODIFICATION	

MODELS OF SYSTEM AFFECTED:	Submarine Periscopes & Imaging Equip.	TYPE MODIFICATION:	Ordalts	MODIFICATION TITLE:	Imaging Block Upgrade/PL011
_					

DESCRIPTION/JUSTIFICATION:

Provides obsolescence related upgrades and technology refresh for the Submarine Periscopes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

		02 & Prior	OT.	FY_		2003		2004		2005		2006		2007	<u>FY</u>	2008	<u>FY</u>	2009	071	<u>TC</u> \$		TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	1478	25.9			25	8.0	65	3.8	29	1.8	23	1.0	49	2.4	95	5.2	59	3.3			1823	51.3
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT*																					0	0.0
SUPPORT EQUIPMENT (CCM & SS)																					0	0.0
OTHER LBU/GFE)																					0	0.0
OTHER																					0	0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST		12.7				0.2		0.8		1.0		0.4		1.4		0.1		0.8		0.5		17.8
TOTAL PROCUREMENT	1478	38.6	0	0.0	25	8.2	65	4.6	29	2.8	23	1.4	49	3.8	95	5.3	59	4.0			1823	69.1

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CLASSIFICATION: UNCLASSIFIED Feb 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: Sub. Periscopes & Imaging Equip. MODIFICATION TITLE: Imaging Block Upgrade/PL011 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months CONTRACT DATES: FY 2002: FY 2003: FY 2004: FY 2005: Apr-02 Apr-03 Apr-04 Apr-05 DELIVERY DATE: FY 2002: Apr-03 FY 2003: Apr-04 FY 2004: Apr-05 FY 2005: Apr-06 (\$ in Millions) FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Cost: FY2002 & Prior To Complete Total \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty \$ Qty Qty \$ FY 2002 & PRIOR 1474 12.7 0.2 1478 12.9 FΥ 0.0 FY 2003 EQUIPMENT 25 0.8 25 8.0 FY 2004 EQUIPMENT 65 65 1.0 1.0 FY 2005 EQUIPMENT 29 29 0.4 0.4 FY 2006 EQUIPMENT 23 23 1.4 1.4 **FY 2007 EQUIPMENT** 49 0.1 49 0.1 FY 2008 EQUIPMENT 95 0.8 95 0.8 FY 2009 EQUIPMENT 59 0.5 59 0.5 TO COMPLETE INSTALLATION SCHEDULE: FY 2002 FY 2006 TC FY 2003 FY 2004 FY 2005 FY 2007 FY 2008 FY 2009 & Prior 2 3 2 3 2 3 2 3 3 2 3 2 3 **TOTAL** 9 22 22 10 10 1474 0 0 2 2 0 8 8 0 21 0 9 7 8 8 0 16 16 17 0 31 32 32 59 In 1823 2 22 22 59 Out 1474 0 0 9 8 8 21 9 10 10 7 8 8 16 16 17 0 31 32 32 1823 P-3A

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P3A	INDIVIDUAL MODIF	FICATION				
MODELS OF SYSTEM AFFECTED:	Type 18 Periscope	TYPE MODIFICATION:	Shipalt	MODIFICATION TITLE:	Automatic Range Finder PL018	
DESCRIPTION/JUSTIFICATION:					F L010	
Provides increased capability to perform	rapid determination of contact	t range without a prior knowledge	e of contact dimensions and w	vithout application of rules of thumb.		
DEVELOPMENT STATUS/MAJOR DEVEL	LOPMENT MILESTONES:					

			<u>2003</u>	<u>FY 2004</u> QTY \$		<u>FY 2005</u> QTY \$		<u>FY 2006</u> QTY \$		<u>FY 2007</u> QTY \$		<u>FY 2008</u> QTY \$		<u>FY 2009</u> QTY \$		QTY \$		TO QTY	TAL \$			
FINANCIAL PLAN (IN MILLIONS)				·				,		·		·		·		·				·		
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							4	4.7	12	10.8	6	5.5									22	21.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT (CCM)					1	1.4															1	1.4
OTHER SPARES																					0	0.0
OTHER TEMPALT																					0	0.0
OTHER: PRE-PRODUCTION MODEL					1	1.4															1	1.4
OTHER: GOV. FURNISHED EQUIP. (GFE)					2	2.9															2	2.9
INSTALL COST										0.8		2.5		1.3								4.6
TOTAL PROCUREMENT	0	0.0	0	0.0	4	5.7	4	4.7	12	11.6	6	8.0	0	1.3	0	0.0	0	0.0	0	0.0	26	31.3
				·	_		_	ITEM	6	P	AGE	15							CLAS	SIFICATIO	N: UNCLA	SSIFIED

Feb 2004 CLASSIFICATION: UNCLASSIFIED P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTEI Type 18 Periscope MODIFICATION TITLE: Automatic Range Finder/PL018 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months CONTRACT DATES: FY 2002: N/A FY 2003: Apr-03 FY 2004: Apr-04 FY 2005: Apr-05 DELIVERY DATE: FY 2002: N/A FY 2003: Oct-04 FY 2004: Oct-05 FY 2005: Oct-06 (\$ in Millions) FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 Cost: FY2002 & Prior FY FY 2008 FY 2009 To Complete Total \$ Qty Qty Qty \$ \$ Qty \$ **FY 2002 & PRIOR** 0.0 FΥ 0 0.0 0 **FY 2003 EQUIPMENT** 0.0 **FY 2004 EQUIPMENT** 0.8 0.8 **FY 2005 EQUIPMENT** 12 2.5 12 2.5 **FY 2006 EQUIPMENT** 6 1.3 1.3 **FY 2007 EQUIPMENT** 0.0 **FY 2008 EQUIPMENT** 0.0 FY 2009 EQUIPMENT 0.0 TO COMPLETE 0.0 INSTALLATION SCHEDULE: <u>TC</u> FY 2002 FY 2004 FY 2005 FY 2006 FY 2008 FY 2009 FY 2003 FY 2007 & Prior 2 3 3 3 TOTAL 4 2 0 0 0 0 0 0 0 0 0 0 0 2 3 3 3 3 2 2 2 0 0 0 0 0 0 0 0 0 22 In 0 0 2 3 3 2 2 0 0 0 0 Out 0 0 0 0 0 0 0 3 3 2 0 0 0 22

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CLASSIFICATION: UNCLASSIFIED Feb 2004

РЗА	INDIVIDUAL	MODIFICA	TION											
MODELS OF SYSTEM AFFECTED:	ISIS		TYPE MODIFIC	ATION:	Shipalt			MODIFICATION	ON TITLE:	SSGN Imagir	ng System/PL021			
DESCRIPTION/JUSTIFICATION:														
Provides for the modernization of the SSGN imaging systems to improve imaging capabilities for the submarine force in support of ISR requirements.														
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT MILESTON	ES:												
	FV 2002 & Prior	FV	EV 2003	EX 2004	EV 2005	EV 2006	EV 2007	EV 2008	EV 2009	TC	ΤΟΤΔΙ			

	<u>FY 2002 & Prior</u> QTY \$ QTY \$ 0		<u>FY</u> QTY	<u>2003</u>		<u>FY 2004</u> QTY \$		<u>FY 2005</u> QTY \$		<u>FY 2006</u> QTY \$		<u>2007</u>	<u>FY</u> QTY	<u>2008</u>	<u>FY</u> QTY	<u>2009</u>	QTY	<u>TC</u> \$	<u>TO</u> QTY	TAL \$		
FINANCIAL PLAN (IN MILLIONS)						·				•		•		·				·		·		·
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							1	11.9													1	11.9
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT*																					0	0.0
SUPPORT EQUIPMENT (CCM &SS)																					0	0.0
OTHER SPARES																					0	0.0
OTHER																					0	0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST												1.7										1.7
TOTAL PROCUREMENT	0	0.0	0	0.0	0	0.0	1	11.9	0	0.0	0	1.7	0	0.0	0	0.0	0	0.0	0	0.0	1	13.5
								ITEM	6	F	AGE	17	_				_		CLAS	SSIFICATIO	N: UNCLA	SSIFIED

Feb 2004 CLASSIFICATION: UNCLASSIFIED P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: MODIFICATION TITLE: SSGN Imaging System/PL021 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 24 months for first shipset. CONTRACT DATES: FY 2002: N/A FY 2003: N/A FY 2004: Apr-04 FY 2005: N/A FY 2004: Apr-06 DELIVERY DATE: FY 2002: N/A FY 2003: N/A FY 2005: N/A (\$ in Millions) FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 Cost: FY2002 & Prior FY FY 2008 FY 2009 ТC Total \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty \$ Qty Qty \$ FY 2002 & PRIOR 0.0 FΥ 0.0 **FY 2003 EQUIPMENT** 0.0 FY 2004 EQUIPMENT 1.7 1.7 FY 2005 EQUIPMENT 0.0 FY 2006 EQUIPMENT 0.0 **FY 2007 EQUIPMENT** 0.0 **FY 2008 EQUIPMENT** 0.0 FY 2009 EQUIPMENT 0.0 TO COMPLETE INSTALLATION SCHEDULE: FY 2002 TC FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2009 FY 2008 & Prior 2 3 3 3 3 **TOTAL** 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 In 1 0 0 0 Out 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1

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CLASSIFICATION:	UNCLASSIFIED	Feb 2004

-	/3A	INDIVIDUAL MODIFICATION			
٨	MODELS OF SYSTEM AFFECTED:	Type 8 and Type 18 Periscopes TYPE MODIFICATION:	Shipalt	MODIFICATION TITLE:	Integrated Sub. Imaging System (ISIS) PL022
С	DESCRIPTION/JUSTIFICATION:				
	Provides for the modernization of the SSN im	aging systems to improve imaging capabilities for the sub-	marine force in support of ISR requirements.		

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2002 & Prior FY						2004		FY 2005		<u>FY 2006</u> QTY \$		2007		2008		2009	O.T. /	TC		TAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT									9	39.9	11	51.2	12	51.8	12	47.2	12	45.1	2	11.3	58	246.5
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT (CCM &SS)																			1	3.8	1	3.8
OTHER SPARES											1	4.7							1	3.8	2	8.5
OTHER TEMPALT																					0	0.0
OTHER: PRE-PRODUCTION MODEL																					0	0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST														6.1		5.7		4.6		10.5		27.0
TOTAL PROCUREMENT	0	0.0	0	0.0	0	0.0	0	0.0	9	39.9	12	55.9	12	57.9	12	52.9	12	49.7	4	29.4	61	285.7
								ITEM	6	P	AGE	19							CLAS	SSIFICATIO	N: UNCLA	ASSIFIED

CLASSIFICATION: UNCLASSIFIED Feb 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTEL Type 8 and Type 18 Periscopes MODIFICATION TITLE: Integrated Sub. Imaging System (ISIS)/PL022 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 14 Months CONTRACT DATES: FY 2002: N/A FY 2003: N/A FY 2004: N/A FY 2005: May-05 **DELIVERY DATE:** FY 2002: N/A FY 2003: N/A FY 2004: N/A FY 2005: Nov-06 (\$ in Millions) FY 2003 FY 2004 FY 2005 Cost: FY2002 & Prior FY FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total Qty Qty Qty Qty \$ \$ Qty \$ Qty \$ Qty \$ Qty Qty \$ Qty \$ \$ \$ Qty \$ FY 2002 & PRIOR 0.0 0.0 **FY 2003 EQUIPMENT** 0.0 FY 2004 EQUIPMENT 0.0 **FY 2005 EQUIPMENT** 6.1 6.1 FY 2006 EQUIPMENT 11 5.7 11 5.7 12 FY 2007 EQUIPMENT 12 4.6 4.6 FY 2008 EQUIPMENT 12 12 4.9 4.9 FY 2009 EQUIPMENT 12 12 4.9 4.9 TO COMPLETE 0.8 8.0 INSTALLATION SCHEDULE: <u>TC</u> FY 2002 FY 2003 FY 2004 FY 2005 FY 2007 FY 2009 FY 2006 FY 2008 & Prior 2 3 3 3 3 3 3 **TOTAL** 4 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 3 2 0 3 4 2 2 3 3 3 26 58 In

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